



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
 AFFAIRS (PERA)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Lawson Industries, Inc.
 8501 NW 90th Street
 Medley, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "PW 4200/ 6200 Flange Frame" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 14200-6200-1201, titled "Series-4200-6200 Flange Impact Fixed Window", sheets 1 through 5 of 5, dated 02/21/12, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises and renews NOA # 07-0516.02 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
 5/17/12

NOA No. 12-0307.06
 Expiration Date: August 22, 2017
 Approval Date: May 24, 2012
 Page 1

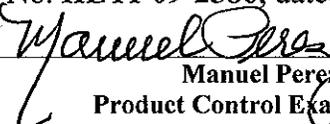
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **L4200-6200-1201**, titled "Series-4200-6200 Flange Frame Impact Fixed Window", sheets 1 through 5 of 5, dated 02/21/12, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.

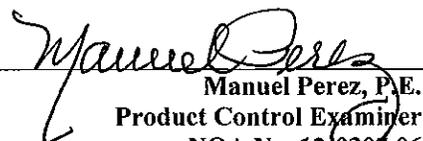
B. TESTS

1. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-12-4010**, dated 03/05/12, signed and sealed by Rafael Droz-Seda, P.E.
2. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-11-3363**, dated 03/05/12, signed and sealed by Rafael Droz-Seda, P.E.
3. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2614**, dated 09/04/09, signed and sealed by Candido F. Font, P.E.
4. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2613**, dated 09/04/09, signed and sealed by Candido F. Font, P.E.
5. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2612**, dated 09/02/09, signed and sealed by Candido F. Font, P.E.
6. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2611**, dated 09/04/09, signed and sealed by Candido F. Font, P.E.
7. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2586**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0307.06
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8. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2585**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.
9. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2584**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.
10. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2582**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.
11. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2581**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.
12. Test report on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2580**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.
13. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-09-2579**, dated 07/10/09, signed and sealed by Candido F. Font, P.E.
14. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1779**, dated 01/30/03, signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA# 06-0117.02)
15. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1778**, dated 01/30/03, signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA# 06-0117.02)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0307.06
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B. TESTS (CONTINUED)

16. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1777**, dated 01/30/03, signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA# 06-0117.02)
17. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1776**, dated 01/30/03, signed and sealed by Raphael Droz-Seda, P.E.
(Submitted under NOA# 06-0117.02)
18. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a full radius fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1774B**, dated 01/30/03, signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA# 06-0117.02)
19. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an eyebrow fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-03-1774A**, dated 01/30/03, signed and sealed by Raphael Droz-Seda, P.E.
(Submitted under NOA# 06-0117.02)
20. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-02-1215**, dated 04/08/02, signed and sealed by Hector Medina, P.E.
(Submitted under NOA# 06-0117.02)
21. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-02-1158**, dated 04/8/02, signed and sealed by Hector Medina, P.E.
(Submitted under NOA# 06-0117.02)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0307.06
Expiration Date: August 22, 2017
Approval Date: May 24, 2012

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B. TESTS (CONTINUED)

22. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1193**, dated 04/08/02, signed and sealed by Hector Medina, P.E.
(Submitted under NOA# 06-0117.02)
23. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1103**, dated 02/12/02, signed and sealed by Hector Medina, P.E.
(Submitted under NOA# 06-0117.02)
24. Test reports on: 1) Cyclic Wind Pressure Loading per FBC, TAS 203-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1098**, dated 02/11/02, signed and sealed by Hector Medina, P.E.
(Submitted under NOA# 06-0117.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by manufacturer, complying with FBC-2010, dated 03/01/12, signed and sealed by Thomas J. Sotos, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.
3. Notice of Acceptance No. **11-0325.05** issued to Solutia, Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0307.06
Expiration Date: August 22, 2017
Approval Date: May 24, 2012

Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, dated March 02, 2012, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter of no financial interest, dated March 02, 2012, signed and sealed by Thomas J. Sotos, P.E.

G. OTHER

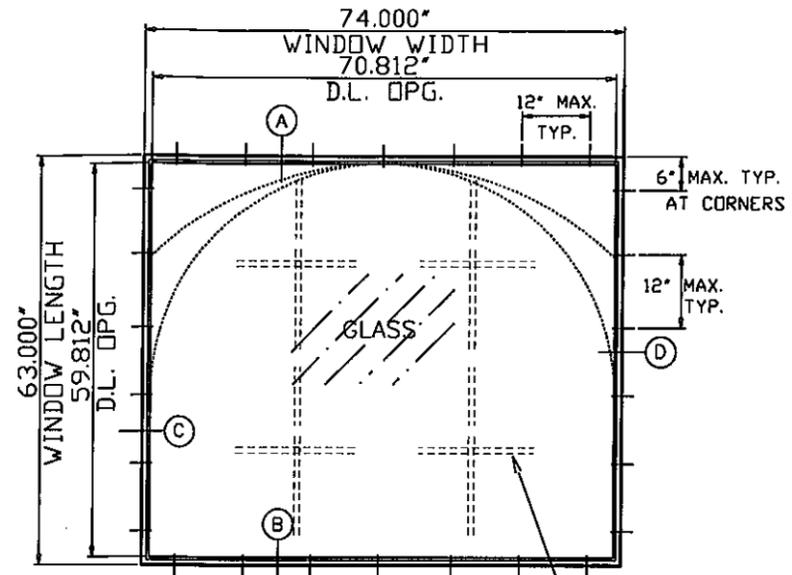
1. Notice of Acceptance No. **07-0516.02**, issued to Lawson Industries, Inc. for their Series "PW 4200/ 6200" Aluminum Fixed Window – L.M.I., approved on 08/02/07 and expiring on 08/22/12.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 12-0307.06
Expiration Date: August 22, 2017
Approval Date: May 24, 2012

SERIES-4200 / 6200 FIXED IMPACT WINDOW - FLANGE FRAME

APPROVED WINDOW ELEVATIONS (L.M.IMPACT)

| | | |
|-------------------------------------|---------------------------------------|--|
| <p>QUARTER-ROUND ELEVATION</p> | <p>HALF-ROUND TYPICAL ELEVATION</p> | <p>ARCHED PICTURE WINDOW</p> |
| <p>HEXAGON TYPICAL ELEVATION</p> | <p>RECTANGULAR TYPICAL ELEVATION</p> | <p>SQUARE PICTURE WINDOW ELEVATION</p> |
| <p>FULL ROUND TYPICAL ELEVATION</p> | <p>RECTANGULAR TYPICAL ELEVATION</p> | <p>SQUARE PICTURE WINDOW ELEVATION</p> |
| <p>OVAL TYPICAL ELEVATION</p> | <p>LEGGED EYE BROW ELEVATION</p> | <p>QUARTER-ROUND ELEVATION</p> |
| <p>OCTAGON TYPICAL ELEVATION</p> | <p>"ELLIPTICAL" TYPICAL ELEVATION</p> | <p>ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN, CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN A SQUARE OR RECTANGLE, AS SHOW IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. PROVIDED PERIMETER FASTENERS ARE AS DESCRIBED HEREIN FOR SIZE AND SPACING.</p> |



TYPICAL ELEVATION TESTED UNIT

NOTE:
 MAXIMUM GLASS AREA TESTED APPLIES TO GLASS TYPES: E, F, J, K AND L. - SEE DESIGN LOAD CAPACITY TABLES ON SHEET 4 FOR SIZE LIMITATIONS OF EACH GLASS TYPE.

EXT. & INT. FALSE COLONIAL MUNTINS ARE APPLIED W/ W/ SILICONE AND ARE AVAILABLE AS OPTIONAL.

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0307.06
 Expiration Date Aug. 22, 2017
 By *Manuel Perez*
 Miami Dade Product Control

WINDOWS ARE L.M. IMPACT MIAMI-DADE COUNTY APPROVED SHUTTERS NOT REQUIRED

General Notes:

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE VELOCITY (HVHZ) AND ASTM 1300-04. THIS PRODUCT IS IMPACT RESISTANT. (SHUTTERS NOT REQUIRED)
- 2.) WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF 2010 F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. ANCHORS ON ALL WINDOW SIZES ARE NOT TO EXCEED THESE MAXIMUM SPACINGS ON CENTER (O.C.)
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 5.) WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE LAMINATED GLASS TYPES, AND FOR USE WITH DOUBLE GLAZE LAMINATED INSULATED GLASS TYPES TABULATED HEREIN; (SEE SHEET #3 FOR GLASS TYPES AND SHEET #4 FOR MAX. DESIGN PRESSURES).
- 6.) WINDOWS WITH GLASS TYPES "B, C, F, OR G" INSTALLED ABOVE 30ft. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-2010, Section 2411.3.3.7).
- 7.) FOR OPTIONAL FRAME INSTALLATION DETAILS SEE SHEETS 2 & 5.
- 8.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE
- 9.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED (BY OTHERS), PRIOR TO WINDOW INSTALLATION. (SEE SHEET #2 FOR DETAIL & NOTES) WOOD BUCKS TO BE ANCHORED IN COMPLIANCE WITH THE 2010 FBC CHAPTER 24,
- 10.) APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE MULLED UNITS.
- 11.) MULLING FIXED WINDOWS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED PRODUCTS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWER DESIGN PRESSURE FROM THE WINDOWS OR MULLION APPROVAL WILL APPLY YO THE ENTIRE MULLED SYSTEM.
- 12.) SEE SHEET # 5 FOR MULLION/METAL ATTACHMENT DETAILS & OPTIONS.
- 13.) ALL METAL/STEEL IN CONTACT WITH ALUMINUM OR OTHER DISSIMILAR MATERIALS TO BE PAINTED OR PLATED AND SHALL MEET THE 2010 FLORIDA BLDG. CODE.

8501 N.W. 90 ST.
 MEDLEY, FLORIDA 33166
 PH No. (305) 696-8660

LAWSON INDUSTRIES, INC.

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES-4200-6200 FLANGE FRAME IMPACT FIXED WINDOW

APPROVED ELEVATIONS, CONFIGURATIONS AND NOTES

Product Reference Number: L4200-6200-1201

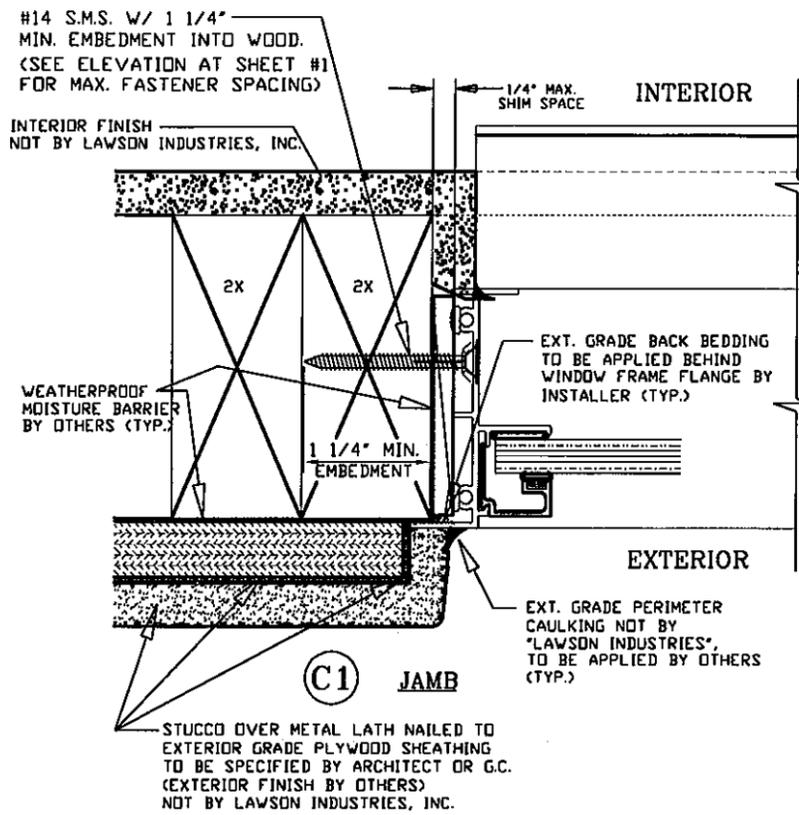
Sheet: 1 OF 5

Revision #:

DATE

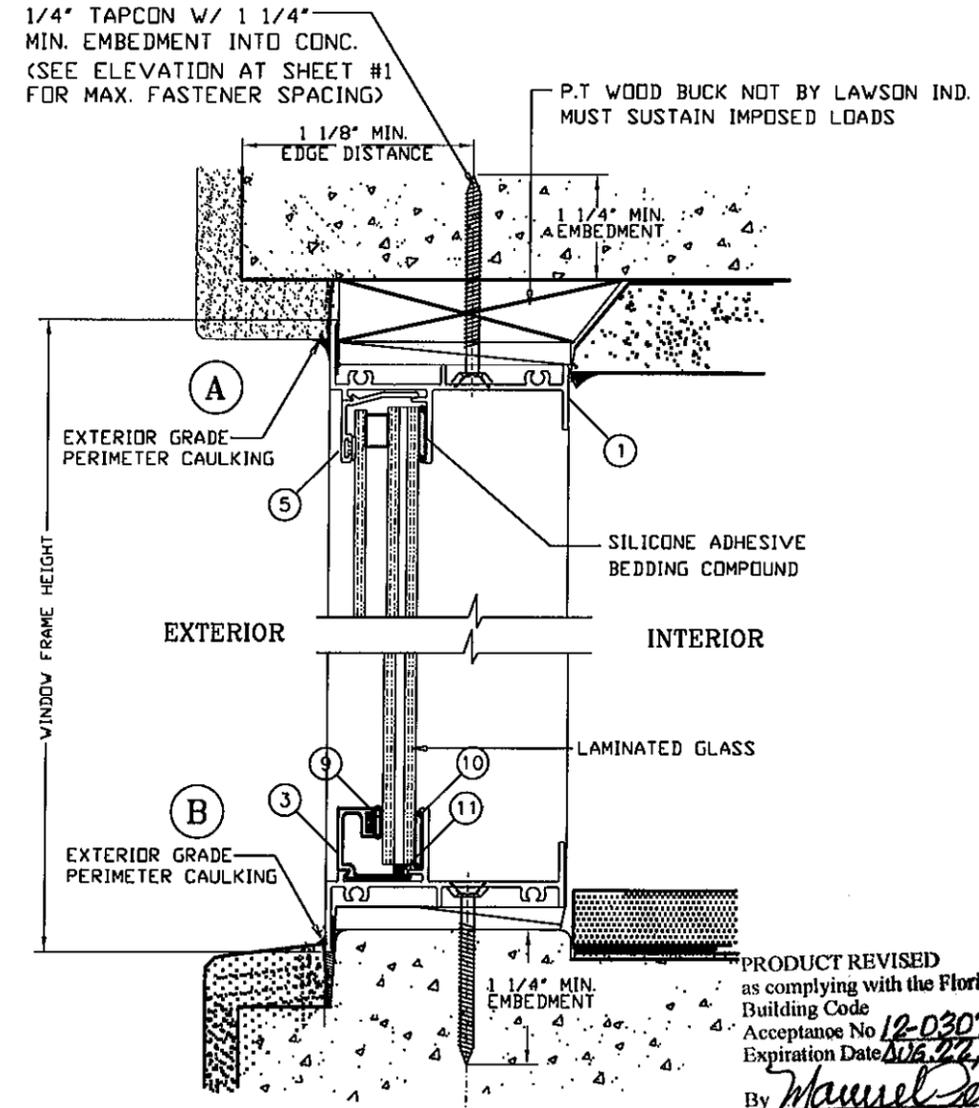
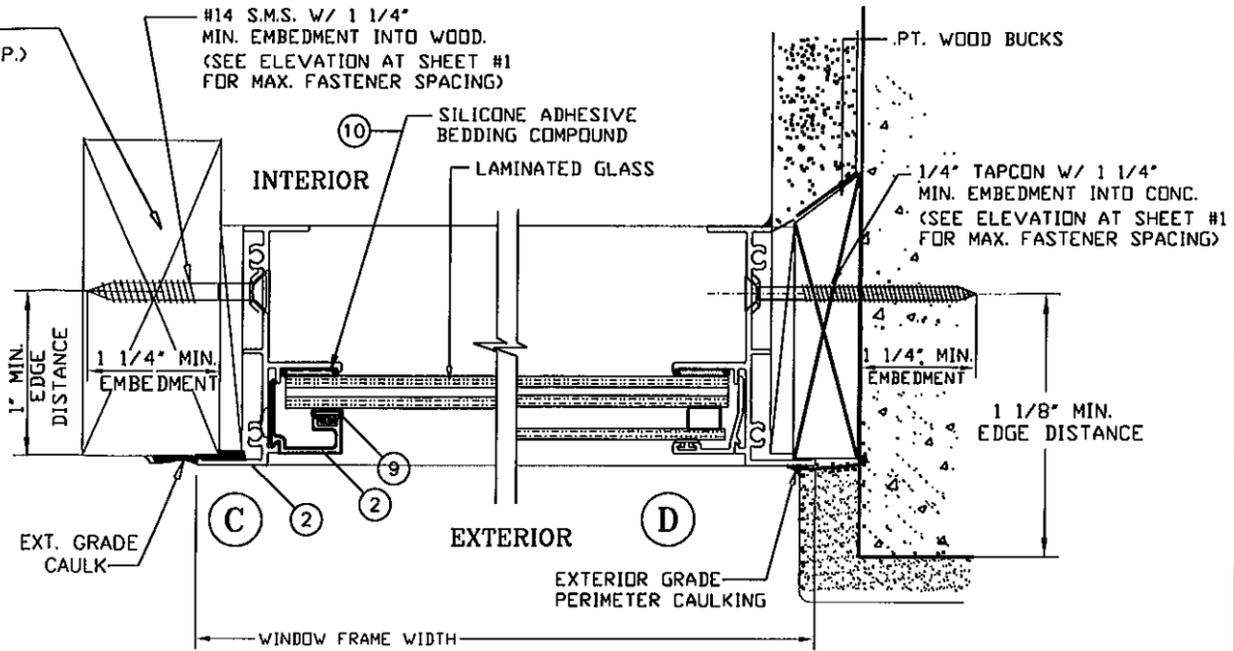
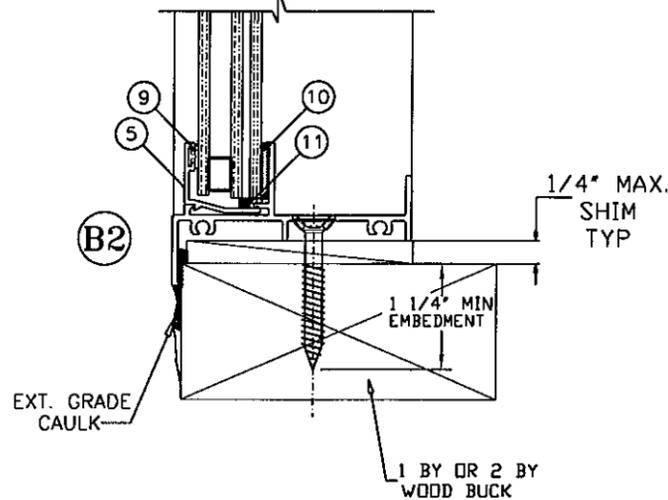
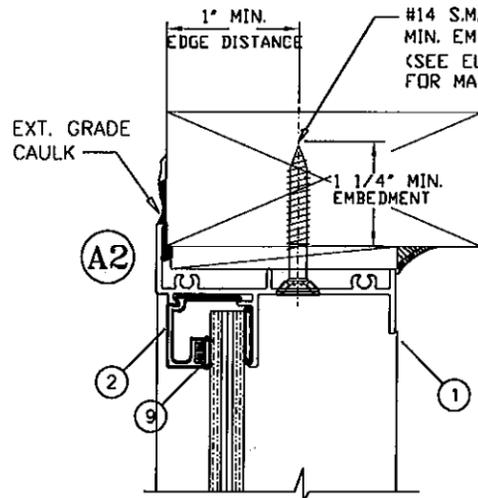
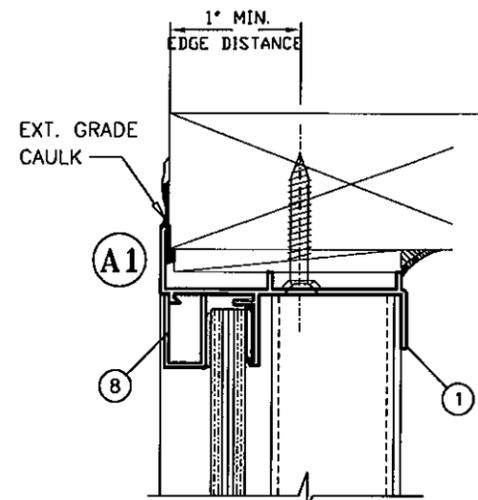
Revision Notes:

| | |
|-----------------|----------|
| Drawn By: | N. ERAZO |
| Reviewed By: | |
| Revision Level: | |
| Date Drawn: | 02-21-12 |
| Date Revised: | |
| Scale: | |



WOOD FRAME INSTALLATION DETAIL

ALL WOOD BUCKS ENGINEERED SEPARATELY & TO BE REVIEWED BY BLDG. OFFICIAL (TYP.)



WINDOW INSTALLATION NOTES:

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)

* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

ANCHORS NOTE:

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4" TAPCONS OR APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. AT 12" O.C. MAX.

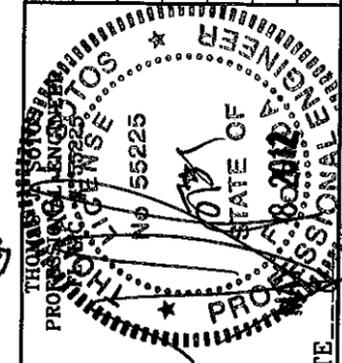
LAWSON INDUSTRIES, INC.

8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS
SERIES-4200-6200 FLANGE FRAME IMPACT FIXED WINDOW
WINDOW VERTICAL AND HORIZONTAL CROSS SECTION, DETAILS & NOTES

| | |
|------------------|-----------------|
| Revision Number: | 2 OF 5 |
| Drawing Number: | L4200-6200-1201 |
| Date Drawn: | 02-21-12 |
| Date Revised: | |
| Scale: | |
| Drawn By: | N. ERAZO |
| Revised By: | |
| Revision Level: | |

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-0307.06
Expiration Date 06/22/2017
By *Manuel Sorez*
Miami Dade Product Control



DATE

| LAMINATED INSULATED GLASS COMPOSITION TYPE B | | |
|--|---------------------------------|--------|
| ITEM | DESCRIPTION | DETAIL |
| 1 | 1/8" ANN. GLASS | |
| 2 | 0.090" SAFLEX PVB-SOLUTIA | |
| 3 | 1/8" ANNEALED GLASS | |
| 4 | 1/4" INSULATED AIR SPACE | |
| 5 (*) | 1/8" ANNEALED OR TEMPERED GLASS | |

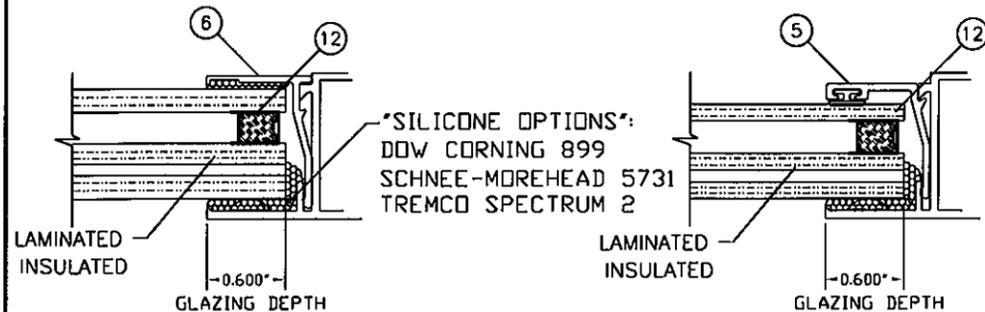
| LAMINATED INSULATED GLASS COMPOSITION TYPE C | | |
|--|----------------------------------|--------|
| ITEM | DESCRIPTION | DETAIL |
| 1 | 1/8" ANNEALED GLASS | |
| 2 | 0.090" SAFLEX PVB-SOLUTIA | |
| 3 | 1/8" ANNEALED GLASS | |
| 4 | 1/4" INSULATED AIR SPACE | |
| 5 (*) | 3/16" ANNEALED OR TEMPERED GLASS | |

| LAMINATED INSULATED GLASS COMPOSITION TYPE F | | |
|--|---------------------------------|--------|
| ITEM | DESCRIPTION | DETAIL |
| 1 | 1/8" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 1/8" HEAT-STRENGTHENED GLASS | |
| 4 | 1/4" INSULATED AIR SPACE | |
| 5 (*) | 1/8" ANNEALED OR TEMPERED GLASS | |

| LAMINATED INSULATED GLASS COMPOSITION TYPE G | | |
|--|----------------------------------|--------|
| ITEM | DESCRIPTION | DETAIL |
| 1 | 1/8" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 1/8" HEAT-STRENGTHENED GLASS | |
| 4 | 1/4" INSULATED AIR SPACE | |
| 5 (*) | 3/16" ANNEALED OR TEMPERED GLASS | |

| LAMINATED INSULATED GLASS COMPOSITION TYPE L | | |
|--|-------------------------------|--------|
| ITEM | DESCRIPTION | DETAIL |
| 1 | 3/16" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 3/16" HEAT-STRENGTHENED GLASS | |
| 4 | 1/4" INSULATED AIR SPACE | |
| 5 | 3/16" TEMPERED GLASS | |

Notes:
 1.) SEE SHEET 4 FOR DESIGN LOADS LOAD CAPACITY TABLES.
 * 2.) WINDOWS WITH GLASS TYPES "B, C, F, OR G" INSTALLED ABOVE 30 FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-2010, Section 2411.3.3.7).



LAMINATED/INSULATED GLASS TYPICAL GLAZING DETAIL

| 5/16" LAMINATED GLASS COMPOSITION - TYPE A | | |
|--|----------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 1/8" ANNEALED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 1/8" ANNEALED GLASS | |

| 5/16" LAMINATED GLASS COMPOSITION - TYPE D | | |
|--|------------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 1/8" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 1/8" HEAT-STRENGTHENED GLASS | |

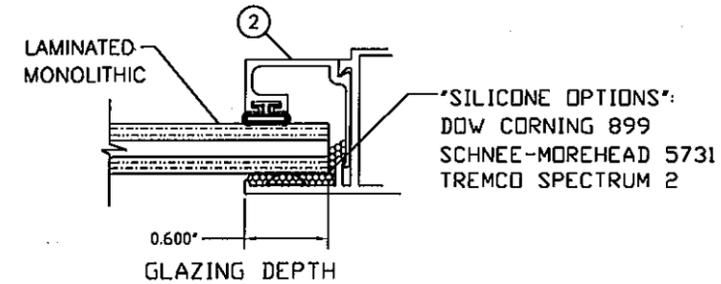
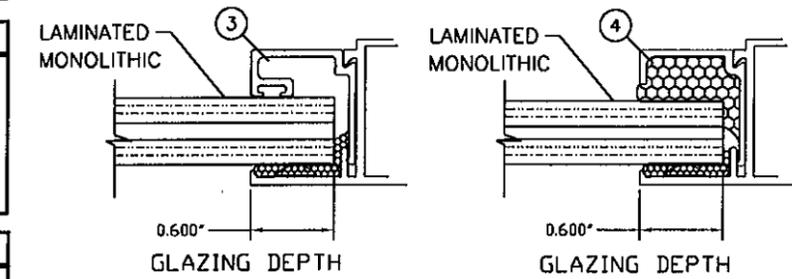
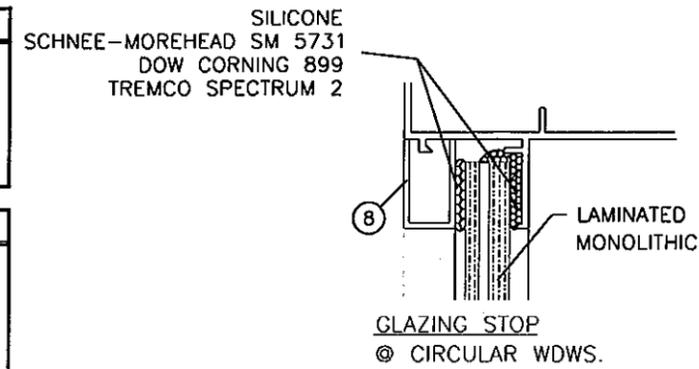
| 13/32" LAMINATED GLASS COMPOSITION - TYPE E | | |
|---|-------------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 3/16" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" SAFLEX PVB-SOLUTIA | |
| 3 | 1/8" HEAT-STRENGTHENED GLASS | |

| 7/16" LAMINATED GLASS COMPOSITION - TYPE H | | |
|--|---------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 3/16" ANNEALED GLASS | |
| 2 | 0.090" SAFLEX PVB-SOLUTIA | |
| 3 | 3/16" ANNEALED GLASS | |

| 7/16" LAMINATED GLASS COMPOSITION - TYPE I | | |
|--|----------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 3/16" ANNEALED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 3/16" ANNEALED GLASS | |

| 7/16" LAMINATED GLASS COMPOSITION - TYPE J | | |
|--|-------------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 3/16" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" SGP-DUPONT | |
| 3 | 3/16" HEAT-STRENGTHENED GLASS | |

| 7/16" LAMINATED GLASS COMPOSITION - TYPE K | | |
|--|-------------------------------|--------|
| ITEM | GLASS DESCRIPTION | DETAIL |
| 1 | 3/16" HEAT-STRENGTHENED GLASS | |
| 2 | 0.090" BUTACITE PVB-DUPONT | |
| 3 | 3/16" HEAT-STRENGTHENED GLASS | |



LAMINATED/MONOLITHIC GLASS TYPICAL GLAZING DETAIL

LAWSON INDUSTRIES, INC.

8501 N.W. 90 ST.
 MEDLEY, FLORIDA 33166
 PH No. (305) 696-8660

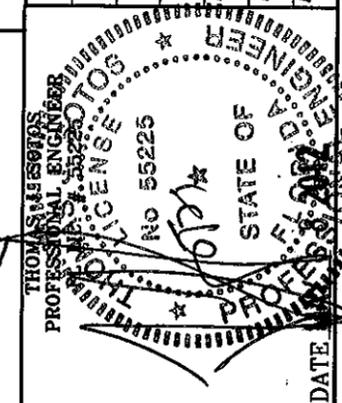
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS
 SERIES-4200-6200 FLANGE FRAME IMPACT FIXED WINDOW
 LAMINATED GLASS TYPES AND GLAZING DETAILS

Product Reference Number: L4200-6200-1201
 Drawing Number: L4200-6200-1201
 Sheet: 3 OF 5
 Revision #:

| | | |
|--------------------|----------------------|--------|
| Revision Notes: | Date Drawn: 02-21-12 | Scale: |
| Drawn By: N. ERAZO | Date Revised: | |
| Revised By: | Revision Level: | |

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0307.06
 Expiration Date AUG 22, 2017

By *Manuel Erazo*
 Miami Dade Product Control



DATE

4200-6200 FIXED IMPACT WINDOW MODULAR SIZES CHART - DESIGN LOAD CAPACITY - PSF

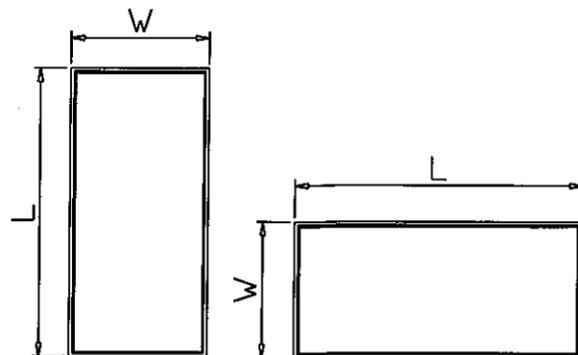
| WINDOW DIMS. | | GLASS TYPES | | | | | | | | | | | |
|--------------|--------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| WIDTH (in.) | LENGTH (in.) | A +/- DP | B +/- DP | C +/- DP | D +/- DP | E +/- DP | F +/- DP | G +/- DP | H +/- DP | I +/- DP | J +/- DP | K +/- DP | L +/- DP |
| 24" | 36" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 36" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 42" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 48" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 54" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 60" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 24" | 48" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 36" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 42" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 64.7 | 58.3 | 78 | 65 | 68 |
| 48" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 56.6 | 51 | 78 | 65 | 68 |
| 54" | | x | x | x | 68 | 65 | 68 | 68 | 56.6 | 51 | 78 | 65 | 68 |
| 60" | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 | |
| 24" | 60" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 36" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 42" | | x | x | x | 68 | 65 | 68 | 68 | 64.7 | 58.3 | 78 | 65 | 68 |
| 48" | | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 |
| 54" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 60" | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 | |
| 24" | 72" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 36" | | x | x | x | 68 | 65 | 68 | 68 | 65.5 | 68 | 78 | 65 | 68 |
| 42" | | x | x | x | x | 65 | 68 | x | x | x | 78 | 65 | 68 |
| 48" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 54" | | x | x | x | x | 65 | x | x | x | x | 74.7 | 65 | 68 |
| 60" | x | x | x | x | 65 | x | x | x | x | 72 | 65 | 68 | |
| 24" | 74" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 36" | | x | x | x | 68 | 65 | 68 | 68 | 64.9 | 68 | 78 | 65 | 68 |
| 42" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 48" | | x | x | x | x | 65 | x | x | x | x | 75.6 | 65 | 68 |
| 54" | | x | x | x | x | 65 | x | x | x | x | 71.5 | 65 | 68 |
| 60" | x | x | x | x | 65 | x | x | x | x | 68.7 | 65 | 68 | |
| 24" | 84" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | x | x | x | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 36" | | x | x | x | x | 65 | 68 | x | x | x | 78 | 65 | 68 |
| 42" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 48" | | x | x | x | x | 65 | x | x | x | x | 73.5 | 65 | 68 |
| 60" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 24" | 96" | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 |
| 30" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 36" | | x | x | x | x | 65 | x | x | x | x | 76.8 | 65 | 68 |
| 24" | 108" | x | x | x | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 |
| 30" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 36" | | x | x | x | x | 65 | x | x | x | x | 74.7 | 65 | 68 |
| 24" | 120" | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 |
| 30" | | x | x | x | x | 65 | x | x | x | x | 78 | 65 | 68 |
| 36" | | x | x | x | x | 65 | x | x | x | x | 74.1 | 65 | 68 |

4200-6200 FIXED IMPACT WINDOW COMMODITY SIZES CHART - DESIGN LOAD CAPACITY - PSF

| WINDOW DIMS. | | GLASS TYPES | | | | | | | | | | | | |
|--------------|--------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|
| WIDTH (in.) | LENGTH (in.) | A +/- DP | B +/- DP | C +/- DP | D +/- DP | E +/- DP | F +/- DP | G +/- DP | H +/- DP | I +/- DP | J +/- DP | K +/- DP | L +/- DP | |
| 19-1/8" | 26" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 48" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 53-1/8" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | | |
| 19-1/8" | 38-3/8" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 66.2 | 66.2 | 78 | 65 | 68 |
| 48" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 63.8 | 63.8 | 78 | 65 | 68 |
| 53-1/8" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 63.8 | 63.8 | 78 | 65 | 68 | |
| 19-1/8" | 50-5/8" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 66.2 | 66.2 | 78 | 65 | 68 |
| 48" | | x | x | x | 68 | 65 | 68 | 68 | x | 51 | 78 | 65 | 68 | |
| 53-1/8" | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 | | |
| 19-1/8" | 58" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | x | 66.2 | 78 | 65 | 68 |
| 48" | | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 | |
| 53-1/8" | x | x | x | x | 65 | 68 | 68 | x | x | 78 | 65 | 68 | | |
| 19-1/8" | 63" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | x | x | x | 68 | 65 | 68 | 68 | x | 66.2 | 78 | 65 | 68 | |
| 48" | | x | x | x | x | 65 | 68 | x | x | x | 78 | 65 | 68 | |
| 53-1/8" | x | x | x | x | 65 | 68 | x | x | x | 78 | 65 | 68 | | |
| 19-1/8" | 74" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 | |
| 48" | | x | x | x | x | 65 | 68 | x | x | x | 75.6 | 65 | 68 | |
| 53-1/8" | x | x | x | x | 65 | 68 | x | x | x | 72 | 65 | 68 | | |
| 19-1/8" | 74-1/4" | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 26-1/2" | | 68 | 68 | 68 | 68 | 65 | 68 | 68 | 68 | 68 | 78 | 65 | 68 | |
| 37" | | x | x | x | 68 | 65 | 68 | 68 | x | x | 78 | 65 | 68 | |
| 48" | | x | x | x | x | 65 | 68 | x | x | x | 75.2 | 65 | 68 | |
| 53-1/8" | 68 | 68 | 68 | x | 65 | 68 | x | x | x | 71.6 | 65 | 68 | | |

Notes (*):

- 1.) SEE SHEET 3 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS.
- * 2.) WINDOWS WITH GLASS TYPES "B, C, F, OR G" INSTALLED ABOVE 30 FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-2010, Section 2411.3.3.7).



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

LAWSON INDUSTRIES, INC.
 8501 N.W. 90 ST.
 MEDLEY, FLORIDA 33166
 PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS
 SERIES-4200-6200 FLANGE FRAME IMPACT FIXED WINDOW
 LAMINATED GLASS DESIGN PRESSURE CHARTS

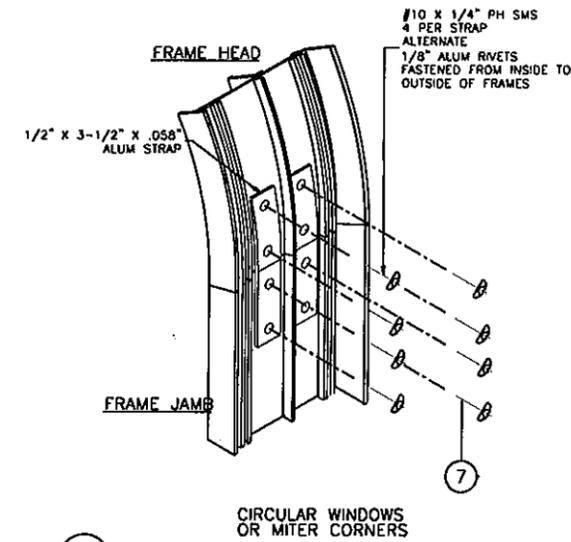
Product Reference Number: L4200-6200-1201
 Drawing Number: 02-21-12
 Sheet: 4 OF 5
 Revision #: 1

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0307.06
 Expiration Date AUG. 22, 2017
 By *Manuel Erazo*
 Miami Dade Product Control

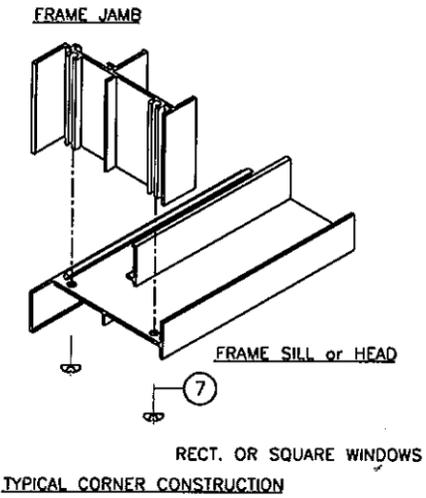
THOMAS H. ERASO
 PROFESSIONAL ENGINEER
 LICENSE NO. 55225
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DATE

BILL OF MATERIALS

| ITEM | PART # | QUANTITY | DESCRIPTION | MATERIAL | REMARKS |
|------|----------------|-----------|--|------------|------------------|
| 1 | L-4201 | 2 | FRAME HEAD/SILL/JAMB | 6063-T6 | - |
| 2 | L-7708 | 4 | GLAZING BEAD (5/16" GLASS) | 6063-T6 | - |
| 3 | L-7708 | 4 | GLAZING BEAD (3/8" & 13/32" GLASS) | 6063-T6 | - |
| 4 | L-7708 TRIMMED | 4 | GLAZING BEAD (7/16" GLASS) | 6063-T6 | - |
| 5 | L-7711 | 4 | GLAZING BEAD (5/16" GLASS- INSULATED) | 6063-T6 | - |
| 6 | L-6211 | 4 | GLAZING BEAD (7/16" GLASS - INSULATED) | 6063-T6 | - |
| 7 | #8 X 3/4" | 2/ CORNER | ASSEMBLY SCREWS | - | P.H. PHILLIPS |
| 8 | L-4204 | AS REQD. | GLAZING BEAD AT CIRCULAR WDWS. | 6063-T5 | - |
| 9 | VWS-004 | AS REQD. | GLAZING GASKET | SOFT PVC | - |
| 10 | * | AS REQD. | GLAZING SILICONE | * | - |
| 11 | PL 75.6020 | AS REQD. | GLAZING SETTING BLOCK | SOFT PVC | 1/8" X 1/8" X 2" |
| 12 | 812-25H-357 | AS REQD. | "TruSeal" Dura Seal Swiggle Spacer | 1/4" BLACK | 1/4" AIR SPACE |



②
FRAME RADIUS JOINT

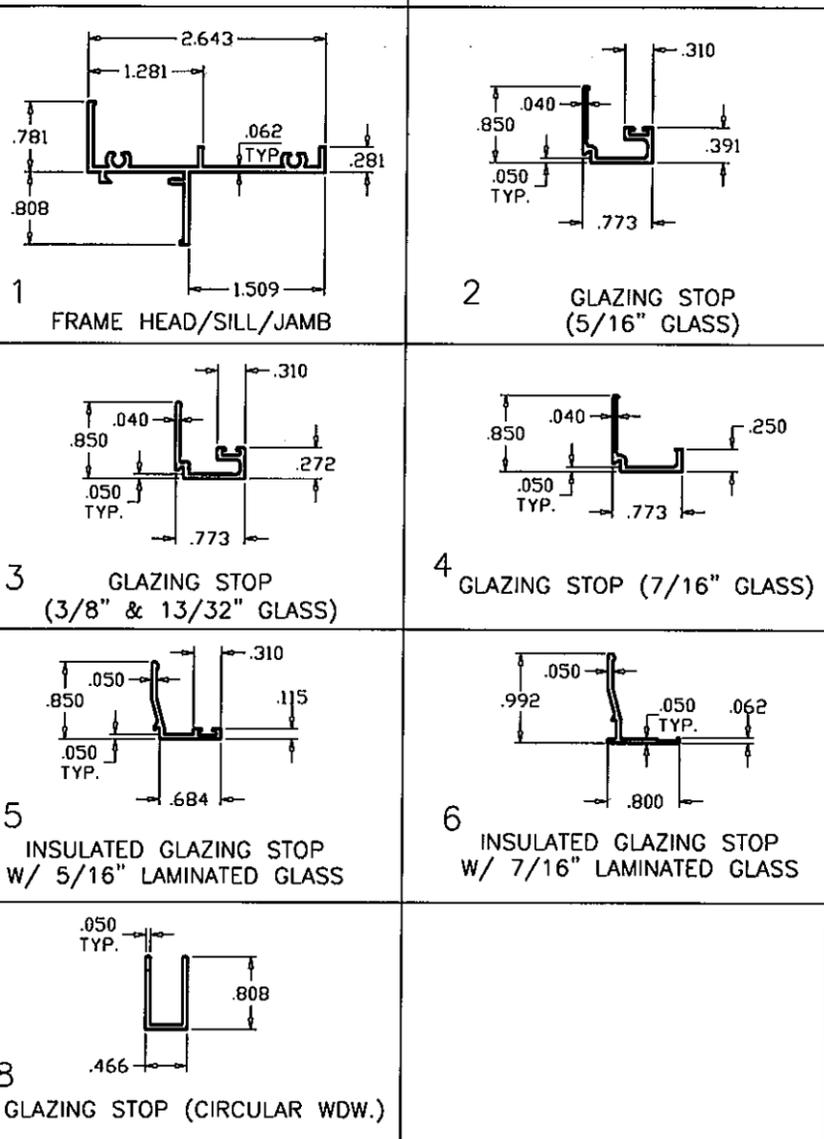


①
FRAME END CORNER

FRAME CORNER & JOINT DETAILS

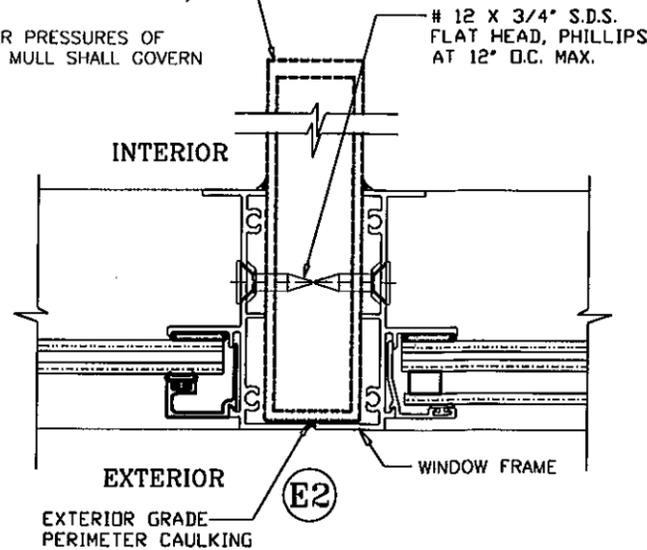
SEALANT:
FRAME CORNERS, OR JOINTS SEALED WITH A COLORED SEALANT AND PERIMETER OF GLAZING BEAD WITH CLEAR SILICONE

WINDOW FRAME EXTRUSION DETAILS

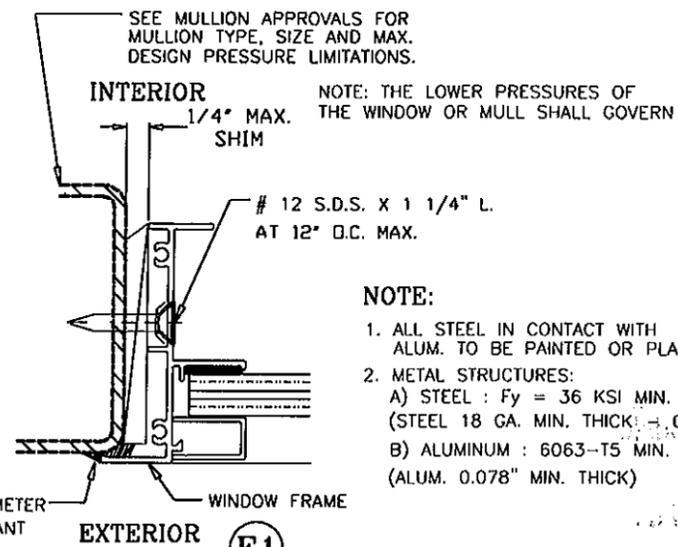


SEE MULLION APPROVALS FOR MULLION TYPE, SIZE AND MAX. DESIGN PRESSURE LIMITATIONS.
ALUMINUM MULLION
(ALUM. 0.078" MIN. THICK)

NOTE: THE LOWER PRESSURES OF THE WINDOW OR MULL SHALL GOVERN



FRAME MULLING DETAIL



METAL STRUCTURE ATTACHMENT DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0307-06
Expiration Date 12-27-2017
By *Manuel Perez*
Miami/Dade Product Control

- NOTE:**
- ALL STEEL IN CONTACT WITH ALUM. TO BE PAINTED OR PLATED.
 - METAL STRUCTURES:
A) STEEL : Fy = 36 KSI MIN.
(STEEL 18 GA. MIN. THICK - .048")
B) ALUMINUM : 6063-T5 MIN.
(ALUM. 0.078" MIN. THICK)

LAWSON
INDUSTRIES, INC.

8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS
SERIES-4200-6200 FLANGE FRAME IMPACT FIXED WINDOW
BILL OF MATERIALS, EXTRUSION DETAILS & CORNER ASSEMBLY DETAILS

Drawing Number: L4200-6200-1201
Sheet: 5 OF 5
Revision #: 5

Revision Notes:

| | | | |
|-----------------|----------|---------------|----------|
| Drawn By: | N. ERAZO | Date Drawn: | 02-21-12 |
| Revised By: | | Date Revised: | |
| Revision Level: | | Scale: | |

Professional Engineer Seal: THOMAS H. HARRIS, PROFESSIONAL ENGINEER, LICENSE NO. 55225, STATE OF FLORIDA. Includes a date stamp: FEB 20 2012.